

(FDD 20160)

Study of Phosphorus Metabolism in Brain During Hypoxia  
With the Aid of Radioactive Phosphorus, by A.A. Smirnov,  
D.A. Chetverikov, 6 pp.

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Vol XC, No 5, Moscow/Leningrad, 1953, pp 343-345.

CIA/FDD/U-5744

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Sci - Med, hypoxia

12,636

Apr 54-CTS

Determination of Non-Volatile Organic Acids in  
Vegetable Extracts by the Method of Paper  
Chromatography, by Ya. R. Shkol'nik.

RUSSIAN, per, ~~AKKXIX~~ Dok Ak Nauk SSSR, Vol XC,  
No 5, 1953, pp 847-849.

GB/256/T.270

Sci-Chem  
Mar 63

225,360

Commonwealth and Industrial Research Organization,  
by L. Cockett, 10 pp.

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SLA R-3634

Sci

Aug 59

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(FDD 28370)

Structure and Physiological Actions of the Replaced  
Phenoxyalkylcarboxylic Acids of Plants, by H. H.  
Mel'nikov, R. Kh. Turotakaya, K. S. Bokarev, 6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk, SSSR, Vol XC,  
No 5, Moscow, 1953, pp 921-923.

CIA/FDD U-8744

38, 849

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Sci - Chemistry

Aug 56 CTS/DEX

The O Association in Scorpius and Its Instability, by  
I. M. K~~o~~ Kopilov, 3 pp. (ABSTRACT)

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XC, No 6, 1953,  
pp 975-978.

CIA X-3051

*CIA X-3051*

On the Nature of Luminescence of the Crab Nebula,  
by I. S. Shklovski, 4 pp. UNCLASSIFIED

RUSSIAN, thrice-monthly, Dok Ak Nauk SSSR, Vol XC, No 6,  
1953, pp 983-986.

Navy Tr 964/NRL 468

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Scientific - Astronomy

Mar 54 CTS

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On the Dynamics of Evaporation of Ideal Multi-  
Component Liquid Mixtures, by L. I. Rubinshtein, *4 pp.*

Full translation.

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NSF 129

Scientific - Physics

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*Sci Museum. Lit 54/0891*

On the Theory of Strong Coupling in Meson Fields, by  
B. T. Geilikman, 4pp.

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No 6, 1958, p 991-194.

ESF Tr 162

Scientific - Physics  
CTS/DEX

8905

*See also...*

The Relative Primary and Total Ionization of  $\pi$ -Mesons  
as a Function of Energy, by G. P. Yeliseyev, V. K.  
Kosmachevsky, V. A. Lyubimov, *YAP.*

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 995-998.

REF Tr 163

Scientific - Physics  
CTS/DEK

*2906*

Radiative Corrections in the Decay of  $\alpha$ -Mesons, by  
E. M. Lipmanov, 3 pp.

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 999-1001.

REF 139

Scientific - Physics

CTS/DEX

8356

*See translation file 5410388*

Determinin, 0 and  $1/2$  Spins of Nuclei from Microwave  
Spectra of Molecules, by A. M. Prokhorov, N. G. Dasov,  
2 pp.

RUSSIAN, thrice-mo per., Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 1003-1004.

ISF Tr 169

*Sci museum lib 54/0786*

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Scientific - Physics

Jan 54 CTS

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Sensitization of the Internal Photoeffect of Semi-  
conductors by Chlorophyll and Allied Pigments, by  
Ye. K. Putseiko, A. N. Terenin, *5 pp.*

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC, No 6,  
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RSP 147

Scientific - Physics  
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8530

An Isotopic-Spin Invariant Theory of  $\beta$ -Decay  
by V. V. Sudakov, 2 pp.

Full translation.

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No 6, 1953, p 1009-1010

NSF 130

Scientific - Physics

CTS/DEK

8347

*Laurence St 59/874*

Reflection Spectra of Compound Silicate Glasses in  
the Infrared Before and After Thermal Treatment,  
by V. A. Flerinskaya, 5pp.

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No 6, 1953, p 1011-1014

ESF 146

Scientific - Chemistry  
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8531

Sci Museum Lib 54/3885

On the Law of Damping of the Luminescence of  
Solid Organic Substances, by V. A. Yastrebov, *4 pp.*

RUSSIAN, three-no per, Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 1015-1018.

NSF Tr 164

Scientific - Physics  
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8907

Viscous Properties of Plastic Lubricants and  
Rotational Resistance of Anti-Friction Bearings,  
by G. V. Vinogradov, M. D. Bazborodko, *4 pp.*

RUSSIAE, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 1019-1022.

ESP Tr 165

*RT-257*

Scientific - Physics  
CTS/DEX

*8908*

*See memo. Lt 445717*

Resistance of Metals to Plastic Deformation, by Yu. I. Yagn, Y. A. Chaplinsky

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,  
No 6, Apr 1953, 1023-1026.  
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ESP Tr 176

Scientific - Minerals/Metals  
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9390

SLA R-1511

The Role of Grain Boundaries in the Plastic  
Deformation of Aluminum, by E. B. Yakovleva, M. V.  
Yakutovich 448

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XC,  
No 6, 1953, p 1027. 1971

NSF 153

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Adsorption of Boron Fluoride on Single and Mixed  
Metallic Oxides, by A. V. Topchiev, A. P. Balled.

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pp 1051-1054.      9077065

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Mar 59

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Abrikosova, I. I. and Deryagin, B. V.  
THE LAW OF INTERMOLECULAR INTERACTION  
AT GREAT DISTANCES. [1961] 6p. (6 refs. 3 figs.  
omitted). 62-10107  
Order from OTS or SLA \$1.10

Trans. of Akademiya Nauk SSSR. Doklady, 1953,  
v. 90, no. 6, p. 1055-1058.

DESCRIPTORS: \*Molecules, \*Molecular structure,  
Colloids, Liquids, Stability.

(Physics--Molecular, TT, v. 7, no. 8)

I. Abrikosova, I. I.  
II. Deryagin, B. V.

201309

Office of Technical Services

11 169

GE-1

BARELKO E. V., KABANOV B. N.

Passivation and activation of magnesium in alkaline solutions  
Passivierung und Aktivierung von Magnesium in Alkalilösungen

Dokl. Akad. Nauk SSSR, 90, No. 6, 1059-1062 (1953)

German

E u r a t o m

63-26688

Kul'kova, N. V., Kuznets, A. D., and Temkin, M. I.  
EXCHANGE OF OXYGEN ISOTOPES BETWEEN CAR-  
BON MONOXIDE AND CARBON DIOXIDE ON AN IRON  
CATALYST. 10p 4 refs DTC-21.  
Order from OTS, ETC or DTC \$0.80 63-26688

Trans. of Akademiya Nauk SSSR, Doklady, 1953, v. 90,  
[no. 6] p. 1067-1070.

Another trans. is available in Dutch from OTS or ETC  
\$1.55 as 61-17422, MTWL-793, 11p.

DESCRIPTORS: Carbon compounds, Monoxides, \*Carbon  
dioxide, \*Isotopes, \*Oxygen, Iron compounds, Oxides,  
Catalysts, \*Exchange reactions, \*Iron catalysts.

(Chemistry--Physical, TT, v. 10, no. 10)

I. Kul'kova, N. V.  
II. Kuznets, Z. D.  
III. Temkin, M. I.  
IV. DTC-21  
V. Danish Translations  
Centre

Office of Technical Services

S-3064

Polymorphic Transformations of Potassium and Sodium  
Superoxides at Low Temperatures, by T. V. Rode.

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No 6, pp 1075-1078.

Determination of the Dose of Spermatozoa  
Used in Fertilization as a Method of Direc-  
ting the Process of Fertilization of  
Sturgeon Eggs, by G. M. Pospelov.

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Vol. XC, No 6, 1953, pp 1053-1055.

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Sci - Biol  
Jun 62

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The Basis of a Classification of Geosynclinal  
Regions, by D. S. Kharkevich. (Abstract)

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol. XC,  
No 6, 1953, pp 1127-1129. CIA D 197045

Mark E. Burgunker Tr

Solaninase in Potato Sprouts, by Ye. I. Petrochenko.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 90, 1953,  
pp 1091-1093.  
\*NTIS TT 72-51090

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RUSSIAN.

Ordnance Technical Intelligence Sv,  
Aberdeen Proving Ground, Md.  
Report OTIO 108

CIA 2509766

(FDD 21177)

The Problem of Turbulence in a Wave, by A. A. Dmitriyev, T. V. Bonchkovskaya, 5 pp.

RUSSIAN, thrice-a-month per, Dok Ak Nauk SSSR, Vol XXI, No 1, Moscow/Leningrad, Jan 1953, pp 31-33.

CIA/FDD/U-6053

NLL 11/27/51

NLL 11/27/51

TIL TR 4848

USSR

Sci - Physics, wave turbulence

61-3327

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Jul 54 CTS

On the Theory of Strong Coupling, by Geilikman

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No 1, 1953, p 39.

NSF Tr 191

Scientific - Physics  
CTS/DEX

*NT-100*  
9266

Secondary Emission During Bombardment of a Metal  
Target by Multiply Charged Ions, by Yu. A. Dunayev,  
I. P. Flaks, 3 pp.

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No 1, 1953, pp 43-74.

45 NSF Tr 72

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Scientific - Nuclear Physics

*Library of Science*  
Sep 53 CTS 5355

Volume Effect in the Isotope Shift in Hydrogen and  
Deuterium, by D. D. Ivanenko, N. N. Kalentkov

RUSSIAN, *zhurnal* - *no* - *of*, Dok Ak Nauk SSSR, Vol XCI,  
no 1, 1953, p 47-50,

Scientific - Physics

REF ID: T5

570-0  
007-13730

*RECTOR 2717*

Reflection and Transmission Spectra of Potassium-Silicate Glasses in the Infrared, by V. A. Florinskaya, R. S. Pechenkina

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NSF Tr 108

*Sci. J. Dept. CT 479*

Scientific - ~~Chemistry~~ Physics  
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*Sci. Museum 4/10/53*

Rectification by Semiconductors in a Thermal Field,  
by I. M. Tsidikovskiy, 5 pp.

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NSF Tr 85

*Sci Man Lit 5/2/61*  
Scientific - Physics  
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5950

Displacement of Grain Boundaries in Annealed Metal,  
by I. A. Odins, M. G. Lozinsky, S. G. Fedotov, 4 pp

RUSSIAN, thrice-mo per, Dokl Ak Nauk SSSR, Vol XCI,  
No 1, 1953, pp 75-~~82~~.

77      3  
ESP Tr 77

USSR

*See also entry 53/405*

Scientific - Minerals/Metals

5356

Sp 53 023

Internal Friction and Shear Modulus of Pure  
Copper and Beryllium Bronze, by V. S. Festnikov *4/80*

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XCI,  
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NSF Tr 86

Scientific - Minerals/Metals  
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*5908*

Jumplike Deformation in the Linear "Elastic" Range  
of the Strain Diagram, by N. P. Syutkin, 3 pp

RUSSIAE, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,  
No 1, 1953, pp 83-85

ESF Tr 74

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Scientific - Physics

Sep 53 CTS

5357

The Structure of the Oxide Formed on the Surface  
of Aluminium, by M. S. Beletskiy, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,  
No 1, 1953, pp 89-91.

*36,094*  
Sci Tr Center RT-3703

Scientific - Chemistry

Jun 56/dex

Properties of  $Al_2TiO_5$ ; by V. A. Bron, A. K. Fedoragin,  
9 pp.

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AUG-tr-1814

Scientific - Chemistry

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On Two Structural Modifications of Synthetic  
Polyamides in a Solid State, by N. V. Mikhaylov,  
V. O. Kleeman, 4 pp.

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Sci Tr Center RT-2837

Scientific - Chemistry  
Jan 56 GTS/dex

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Elementary Reactions of Atomic Oxygen With  
Methane, by L. I. Avramenko, R. V. Kolesnikova,  
5 pp.

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Sci Trans Center  
RT 2295

Scientific - Chemistry

Sep 55 CBS/DMX

Concerning Certain Similarity and Difference  
of Processes Which Occur in Photolysis and  
Second Ripening of Photographic Emulsion, by  
B. G. Varshaver, A. A. Titov, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCI,  
No 1, 1953, pp 111-114.

CIA/PDD/X-1629

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Scientific - Chemistry

May 55 CTS

63-18460

Rode, T. V. and Dobryzna, T. A.  
A THERMAL ANALYSIS OF LITHIUM PEROXIDE.  
[1963] 6p. 15 refs.  
Order from OTS or SLA \$1.10

63-18460

I. Rode, T. V.  
II. Dobryzna, T. A.

Trans. of Akademiya Nauk SSSR, Doklady, 1953, v. 91,  
no. 1 [p. 125-127].

DESCRIPTORS: \*Thermochemistry, \*Lithium com-  
pounds, \*Peroxides, Decomposition, Reaction kinetics,  
\*Calorimetry, X-ray diffraction analysis.

A thermographic investigation (heating and cooling  
curves) of lithium peroxide was performed under dif-  
ferent conditions. The decomposition kinetics of this  
compound on heating were examined. X-ray patterns  
were obtained from the starting compounds and from  
preparations heated to various temperatures for record-  
ing the thermal effects on the thermograms. The  
(Chemistry--Physical, TT, v. 10, no. 9) (over)

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Oxide Films and the Effect of Surface Active  
SUBSTANCES ON the Creep of Metal Single  
Crystals, by V. N. Rozhnovskiy, P. A. Rebinder,  
7 pp.

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Scientific - Chemistry

May 56 CTE/dex

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Scientific - Miscellaneous

Heat Capacity of Water-Phenol Solutions in the  
Critical Region, by Kh. I. Amirkhanov, I. G.  
Gurvich

RUSSIAN, thirteenth part, Dokl Ak Nauk SSSR, Vol XCI,  
No 2, 1953, p 221-223.

NSF Tr 97

Scientific - Chemistry  
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*also Sci Museum 63 1957*

Vacuum Polarization in the Theory of Strong  
Coupling, by Geilikman

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,  
No 2, 1953, p 225.

NSF Tr 192

RT-857

Scientific - Physics  
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9268

Concerning Certain Similarity and Difference  
of Processes Which Occur in Photolysis and

Formation of V-Centers in Alkali Halide Crystals  
During Their Additive Coloration in Halogen  
Vapors, by I. M. Shamovsky

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NSF Tr 96

Scientific - Chemistry  
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S-4233

(NY-1562)

Method of Study of Convective Movements in the Free Atmosphere, by N. I. Vol'fson, 6 pp.

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Sci - Geophysics

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Short-Period [Oscillatory] Disturbances in the  
Terrestrial Magnetic Field, by V. A. Troyitskaya,  
4 pp.

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Vol XCI, No 2, 1953, pp 241-244. CIA D 247370

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X-16000  
N-33000  
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CTS 71/Aug 1955

Def Sci Info Svc,  
DRB, Canada,  
T 174 R  
Sec 1, Div. 55/2272  
25,757

The Nonsteady Rate of Nucleation of a New Phase  
Under Great Supercooling, by B. Ya. Lyubov

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Scientific - Nuclear Physics  
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See translation 54/10107



On the Nature of Viscous Destruction of Metals, by  
V. A. Pavlov

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No 2, 1953, p 253. - 255

HSF Tr 100

*See in 107 RT 405*

Scientific - Minerals/Metals  
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*See in 107 RT 405*

Diffusion of Iron in Nickel, by M.B. Neiman  
et al.  
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\*CFSTI TT 70-57036

Sci/phys  
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Cyanoethylation of Some Glycols and Preparation of  
Amines from the Nitriles, by E. A. Poshiltsova,  
3 pp,

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CIA/FDD/X-1558

Scientific - Chemistry

Feb 55 CTS

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Influence of the Temperature Upon the Speed  
of Corrosion of Aluminium and Some Aluminium  
Alloys, by G. V. Akimov, V. V. Romanov,

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Scientific - Min/Metals Feb 55 CTS

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The Simplest Ethers of Diethylphosphoric Acids,  
by A. I. Rezumov, O. A. Mukhacheva, 2 pp.

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Sci Mu Lib Tr 55/0842

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Scientific - Chemistry

Jul 55 CTS

Microhardness of Siliconized Gases, by N. S. Gorbunov,  
A. S. Akopdzanyan, N. A. Izgeryshev.

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No 2, 1953, pp 285-286.

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Price \$1.60

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61-13396

Krasil'shchikov, A. I. and Antonova, L. G.  
A STUDY OF THE CATALYTIC OXIDATION OF  
HYDROGEN BY AN ELECTROCHEMICAL METHOD.  
[1960] Sp. 3 refs. Translation NT746; M2035.  
Order from LC or SLA m\$1.80, ph\$1.80 61-13396

Trans. of [Akademiya Nauk] SSSR. Dokl[ady] 1953,  
v. 91, no. 2, p. 291-293.

143, 151

1. Hydrogen--Oxidation
2. Hydrogen--Electrochemistry
- I. Krasil'shchikov, A. I.
- II. Antonova, L. G.
- III. Department of Scientific  
and Industrial Research  
(G. Brit.)
- IV. DSIR NT746
- V. DSIR LLU M. 2035

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 1)

Effect of Gelatin on the Thermal Decolorization  
of Tricarbocyanine Dyes and the Chemical  
~~State~~ Nature of the Sensitizing Components  
of Gelatin, 4 pp.

RUSSIAN, per, Dok. Ak. Nauk SSSR, Vol XCI,  
No 2, 1953, pp 299-300.

CIA/FDD/X-1624 23,653

Scientific - Chemistry

May 55 CIA

Relaxation of Pressure During Phase Transformation  
of Ammonium Nitrate and p-Dichlorobenzene, by  
I. A. Leskovich, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCI, No 2,  
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SLA 60-17704

Sci  
OTS, Vol IV, No 3  
Sep 60

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New Principle in the Investigation of Atmospheric  
Corrosion of Metals, by I. L. Rozenfel'd,  
T. I. Pavlutskaya.

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Co-op Tr Sch No 81  
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Scientific - Minerals/Metals  
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Photoreduction of  $C^{14}$ -Labeled Carbon Dioxide  
by Isolated Chloroplasts, by E. A. Boichenko, V. I.  
Baranov, 5 pp.

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SLA R-1291

May 58

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Different States of Chlorophyll in Leaves, by A. A.  
Krasnovskiy, L. M. Koschutskeva, 4 pp.

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36,110  
Sci Tr Center NT-3722

Scientific - Chemistry

Jun 56/dex

TT-64-16219

Palladin, A. V. and Polyakova, N. M.  
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IN DIFFERENT FUNCTIONAL CONDITIONS. [1964] 5p  
10refs

I. Palladin, A. V.  
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Order from OTS, SLA, or ETC \$1.10 TT-64-16219

Trans. of ~~Akademiya Nauk SSSR~~ Doklady/1963, v. 91,  
no. 2, p. 347-349.

(Biological Sciences--Biochemistry, TT, v. 12, no. 4)

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New Data on the Geological Structure of the Soviet  
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*Sci Mus Lib 7/15/56/3058*  
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Scientific - Geophysics: *42,041*

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Scientific - Astronomy

~~Exd~~ Apr 55 CTS

(FDD 20019)

Over-All Electrical Activity as One of the Indices of  
the Functional Condition of the Cerebral Cortex,  
by G. D. Smirnov, P. M. Vinogradov, 9 pp.

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CIA/FDD/U-5567

USSR

Scientific - Biology, physiology of the brain

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DESCRIPTORS: \*Alumina-silica catalysts, Poisoning,  
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DESCRIPTORS: \*Benzenes, Hydrogen compounds,  
Bromides, Liquids, \*Exchange reactions, Deuterium.

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(Materials--Ceramics, TT, v. 11, no. 10)

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